F.A.P. RTE.	SECTION		С	OUNT	TOTAL	SHEET NO.	
365	59(SA, SB&	SF)1		DUPA	GE	39	17
FED. RO	AD DIST. NO.	ILLIN	ois	FED.	AID	PROJECT	

		G OPERATION RATE WATE				
FUNCTION		ADA BBLER)	FLOAT			
	ELEVATION	LEVEL ABOVE WET PIT FLOOR	ELEVATION	LEVEL ABOVE WET PIT FLOO		
	(FT)	(FT)	(FT)	(FT)		
LOW FLOW PUMP START	701.50	3.0	702.5	4.0		
LEAD PUMP START & LOW FLOW PUMP STOP	706.0	7.5	706.5	8.0		
LAG PUMP START	706.50	8.0	707.0	8.5		
STANDBY PUMP START	707.00	8.5	707.5	9.0		
HIGH WATER ALARM	708.00	9.5	708.00	9.5		

	EQUIPMENT SCHEDULE															
			ELECTRICAL MOTOR CHARACTERISTICS			PUMP		FAN								
ITEM	DESCRIPTION	LOCATION	ĸw	HP	RPM	VOLTS	PHASE	HZ	CAPACITY (GPM)	HEAD (FT)	TYPE	CAPACITY (CFM)	SP (IN)	DRIVE	MOUNTING	REMARKS
MP I	RELOCATE EXIST. MAIN PUMP #1	DRY PIT	22	30*	* 860	460	3	60	2,900	30						RELOCATE EXIST. PUMP
MP 2	NEW MAIN PUMP #2	DRY PIT	22 *	* 30	* 860	460	3	60	2,900	30						SEE NOTES 1
MP 3	RELOCATE EXIST. MAIN PUMP #3	DRY PIT	22 *	* 30	* 860	460	3	60	2,900	30						RELOCATE EXIST. PUMP
LFP 4	NEW LOW FLOW PUMP #4	DRY PIT	* 4.8	* 7.5	* 1,750	460	3	60	250	33						SEE NOTES 1
SP 1	NEW SUMP PUMP	DRY PIT	* 0.45	* 0.5	* 3,300	460	3	60	20	35						SEE NOTES 1
G 1	SLIDE GATE ACTUATOR	OUTSIDE ABOVE GRADE	0.75	1		460	3	60								
G 2	SLIDE GATE ACTUATOR	OUTSIDE ABOVE GRADE	0.75	1		460	3	60								
_	TROLLEY HOIST MOTOR	PUMP ROOM	3,7	5		460	3	60								
-	ELECTRIC HOIST MOTOR	PUMP ROOM	0.45	0.5		460	3	60								

PUMPING OPERATION RANGES WITH FALLING WATER										
FUNCTION		ADA BBLER)	FLOAT							
	ELEVATION	LEVEL ABOVE WET PIT FLOOR	ELEVATION	LEVEL ABOVE WET PIT FLOOF						
	(FT)	(FT)	(FT)	(FT)						
MAIN PUMPS STOP AND LOW FLOW PUMP START	703.00	4.5	703.00	4.5						
LOW FLOW PUMP STOP	701.00	2.5	701.00	2.5 1.5						
LOW WATER ALARM	700.00	1.5	700.00							
										

* MAXIMUM

NOTES

- 1. THE DESIGN OF THE PUMP STATION HAS BEEN BASED ON A SPECIFIC PUMP. OTHER PUMPS PRODUCING THE SAME HYDRAULIC CHARACTERISTIC ARE ACCEPTABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBLITY TO MAKE ALL ADJUSTMENTS TO THE STATION DESIGN REQUIRED TO ADOPT HIS FINAL SELECTED PUMPS AT NO ADDITIONAL COST.
- 2. STAND-BY PUMP STARTS ONLY WHEN MOTOR OVERLOADS OR STARTING SEQUENCE FAILS FOR ANY MAIN PUMP $% \left(1,0\right) =0$
- 3. PROVIDE NEW MOTOR PROTECTION RELAYS (MPR) FOR EXISTING PUMPS (MP-1 AND MP-3).

M4		ILLINOIS DEPARTMENT OF TRANSPORTATION					
REVISIONS		PUMP STATION NO. 48					
NAME	DATE	REHABILITATION					
		EQUIPMENT SCHEDULE AND PUMPING OPERATING ELEV.					
		SCALE: N/A DRAWN BY: HFF					
		DATE: 03-10-11 CHECKED BY: KH	С				